Express Label #: ET412528100US

ABSTRACT

METHOD, COMPUTER PROGRAM PRODUCT, AND SYSTEM
5
FOR A SELF-THROTTLED COMPUTING TASK

A throttling specification is received by a computer task to direct the computer task's

usage of critical computer resources, such as CPU cycles. The computer task comprises units

of work, and the elapsed time of each unit of work is calculated as each unit of work completes.

10 Upon the completion of one unit of work, a suspension time is calculated based at least

partially on the throttling specification and the elapsed time corresponding to the completed

unit of work. Prior to initiating the next unit of work for the computer task, the computer task

is suspended for the calculated suspension time. In this manner, other important computing

tasks operating in the computer system have access to critical computer resources during the

15 suspension period. Even though the computer task may be given the highest possible priority to

ensure a timely and predictable completion, total monopolization of critical computer resources

is avoided.